

Global Nitride Vanadium for Steel Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G637E3D29661EN.html>

Date: April 2026

Pages: 91

Price: US\$ 3,480.00 (Single User License)

ID: G637E3D29661EN

Abstracts

According to our (Global Info Research) latest study, the global Nitride Vanadium for Steel market size was valued at US\$ 1167 million in 2025 and is forecast to a readjusted size of US\$ 1532 million by 2032 with a CAGR of 4.1% during review period.

In 2025, global Nitride Vanadium for Steel production reached approximately 63 k tons, with an average global market price of around US\$18 per kilogram. Nitride Vanadium for Steel is a crucial additive that significantly enhances the properties of steel. It is formed by the reaction of vanadium with nitrogen. When added to steel, nitride vanadium acts as a powerful grain refiner. It helps to break up the large grains in the steel microstructure, leading to a finer and more uniform grain structure. This, in turn, improves the strength and toughness of the steel. Moreover, it contributes to the precipitation hardening process. The fine vanadium nitride precipitates dispersed within the steel matrix increase the hardness and wear resistance of the steel.

The global market for nitride vanadium for steel is intrinsically linked to the iron and steel industry. Currently, market demand is primarily driven by global crude steel output, particularly in China. According to China's National Bureau of Statistics, the nation's crude steel production has remained at a high level in recent years, though growth has stabilized, providing a foundational platform for nitride vanadium demand. Regarding development trends, the steel industry's increasing requirements for material performance, with clear directions toward high strength and lightweighting, continually support the demand for nitride vanadium as an efficient microalloying additive. Concurrently, the rise of vanadium redox flow battery energy storage is creating a new application field for vanadium resources, which may long-term influence the industrial chain layout and raw material flow. Development opportunities stem from the upgrading

of steel product mix. For instance, the promotion and application of higher-standard rebar (e.g., HRB600) in China directly increases vanadium consumption per unit of steel, injecting structural growth momentum into the nitride vanadium market. Furthermore, infrastructure investment and advanced manufacturing development globally are expected to sustain demand for high-quality alloy steels. Key obstacles include the direct impact of the steel industry's own cyclical fluctuations on demand, cost control pressures from vanadium raw material price volatility, and potential competition from other microalloying technologies in certain applications. Overall, the nitride vanadium for steel market is transitioning from a phase driven by traditional scale to one driven by technological upgrades and demand from high-end applications.

This report is a detailed and comprehensive analysis for global Nitride Vanadium for Steel market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Nitride Vanadium for Steel market size and forecasts, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Nitride Vanadium for Steel market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Nitride Vanadium for Steel market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Nitride Vanadium for Steel market shares of main players, shipments in revenue (\$ Million), sales quantity (Kilotons), and ASP (US\$/Ton), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Nitride Vanadium for Steel

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Nitride Vanadium for Steel market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Pangang, HBIS Chengsteel, Bushveld Minerals, Chengde Jianlong, Zhongxin New Materials, Zhongjia Alloy, Shaanxi Huayin Technology, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Nitride Vanadium for Steel market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Nitrogen Content 12%

Nitrogen Content 16%

Market segment by Carbon Content

Carbon Content

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Nitride Vanadium for Steel Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Nitrogen Content 12%

1.3.3 Nitrogen Content 16%

1.4 Market Analysis by Carbon Content

1.4.1 Overview: Global Nitride Vanadium for Steel Consumption Value by Carbon Content: 2021 Versus 2025 Versus 2032

1.4.2 Carbon Content

List Of Tables

LIST OF TABLES

Table 1. Global Nitride Vanadium for Steel Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Nitride Vanadium for Steel Consumption Value by Carbon Content, (USD Million), 2021 & 2025 & 2032

Table 3. Global Nitride Vanadium for Steel Consumption Value by Performance, (USD Million), 2021 & 2025 & 2032

Table 4. Global Nitride Vanadium for Steel Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. Pangang Basic Information, Manufacturing Base and Competitors

Table 6. Pangang Major Business

Table 7. Pangang Nitride Vanadium for Steel Product and Services

Table 8. Pangang Nitride Vanadium for Steel Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. Pangang Recent Developments/Updates

Table 10. HBIS Chengsteel Basic Information, Manufacturing Base and Competitors

Table 11. HBIS Chengsteel Major Business

Table 12. HBIS Chengsteel Nitride Vanadium for Steel Product and Services

Table 13. HBIS Chengsteel Nitride Vanadium for Steel Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. HBIS Chengsteel Recent Developments/Updates

Table 15. Bushveld Minerals Basic Information, Manufacturing Base and Competitors

Table 16. Bushveld Minerals Major Business

Table 17. Bushveld Minerals Nitride Vanadium for Steel Product and Services

Table 18. Bushveld Minerals Nitride Vanadium for Steel Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. Bushveld Minerals Recent Developments/Updates

Table 20. Chengde Jianlong Basic Information, Manufacturing Base and Competitors

Table 21. Chengde Jianlong Major Business

Table 22. Chengde Jianlong Nitride Vanadium for Steel Product and Services

Table 23. Chengde Jianlong Nitride Vanadium for Steel Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. Chengde Jianlong Recent Developments/Updates

- Table 25. Zhongxin New Materials Basic Information, Manufacturing Base and Competitors
- Table 26. Zhongxin New Materials Major Business
- Table 27. Zhongxin New Materials Nitride Vanadium for Steel Product and Services
- Table 28. Zhongxin New Materials Nitride Vanadium for Steel Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 29. Zhongxin New Materials Recent Developments/Updates
- Table 30. Zhongjia Alloy Basic Information, Manufacturing Base and Competitors
- Table 31. Zhongjia Alloy Major Business
- Table 32. Zhongjia Alloy Nitride Vanadium for Steel Product and Services
- Table 33. Zhongjia Alloy Nitride Vanadium for Steel Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 34. Zhongjia Alloy Recent Developments/Updates
- Table 35. Shaanxi Huayin Technology Basic Information, Manufacturing Base and Competitors
- Table 36. Shaanxi Huayin Technology Major Business
- Table 37. Shaanxi Huayin Technology Nitride Vanadium for Steel Product and Services
- Table 38. Shaanxi Huayin Technology Nitride Vanadium for Steel Sales Quantity (Kilotons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 39. Shaanxi Huayin Technology Recent Developments/Updates
- Table 40. Global Nitride Vanadium for Steel Sales Quantity by Manufacturer (2021-2026) & (Kilotons)
- Table 41. Global Nitride Vanadium for Steel Revenue by Manufacturer (2021-2026) & (USD Million)
- Table 42. Global Nitride Vanadium for Steel Average Price by Manufacturer (2021-2026) & (US\$/Ton)
- Table 43. Market Position of Manufacturers in Nitride Vanadium for Steel, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025
- Table 44. Head Office and Nitride Vanadium for Steel Production Site of Key Manufacturer
- Table 45. Nitride Vanadium for Steel Market: Company Product Type Footprint
- Table 46. Nitride Vanadium for Steel Market: Company Product Application Footprint
- Table 47. Nitride Vanadium for Steel New Market Entrants and Barriers to Market Entry
- Table 48. Nitride Vanadium for Steel Mergers, Acquisition, Agreements, and Collaborations
- Table 49. Global Nitride Vanadium for Steel Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 50. Global Nitride Vanadium for Steel Sales Quantity by Region (2021-2026) & (Kilotons)

Table 51. Global Nitride Vanadium for Steel Sales Quantity by Region (2027-2032) & (Kilotons)

Table 52. Global Nitride Vanadium for Steel Consumption Value by Region (2021-2026) & (USD Million)

Table 53. Global Nitride Vanadium for Steel Consumption Value by Region (2027-2032) & (USD Million)

Table 54. Global Nitride Vanadium for Steel Average Price by Region (2021-2026) & (US\$/Ton)

Table 55. Global Nitride Vanadium for Steel Average Price by Region (2027-2032) & (US\$/Ton)

Table 56. Global Nitride Vanadium for Steel Sales Quantity by Type (2021-2026) & (Kilotons)

Table 57. Global Nitride Vanadium for Steel Sales Quantity by Type (2027-2032) & (Kilotons)

Table 58. Global Nitride Vanadium for Steel Consumption Value by Type (2021-2026) & (USD Million)

Table 59. Global Nitride Vanadium for Steel Consumption Value by Type (2027-2032) & (USD Million)

Table 60. Global Nitride Vanadium for Steel Average Price by Type (2021-2026) & (US\$/Ton)

Table 61. Global Nitride Vanadium for Steel Average Price by Type (2027-2032) & (US\$/Ton)

Table 62. Global Nitride Vanadium for Steel Sales Quantity by Application (2021-2026) & (Kilotons)

Table 63. Global Nitride Vanadium for Steel Sales Quantity by Application (2027-2032) & (Kilotons)

Table 64. Global Nitride Vanadium for Steel Consumption Value by Application (2021-2026) & (USD Million)

Table 65. Global Nitride Vanadium for Steel Consumption Value by Application (2027-2032) & (USD Million)

Table 66. Global Nitride Vanadium for Steel Average Price by Application (2021-2026) & (US\$/Ton)

Table 67. Global Nitride Vanadium for Steel Average Price by Application (2027-2032) & (US\$/Ton)

Table 68. North America Nitride Vanadium for Steel Sales Quantity by Type (2021-2026) & (Kilotons)

Table 69. North America Nitride Vanadium for Steel Sales Quantity by Type

(2027-2032) & (Kilotons)

Table 70. North America Nitride Vanadium for Steel Sales Quantity by Application (2021-2026) & (Kilotons)

Table 71. North America Nitride Vanadium for Steel Sales Quantity by Application (2027-2032) & (Kilotons)

Table 72. North America Nitride Vanadium for Steel Sales Quantity by Country (2021-2026) & (Kilotons)

Table 73. North America Nitride Vanadium for Steel Sales Quantity by Country (2027-2032) & (Kilotons)

Table 74. North America Nitride Vanadium for Steel Consumption Value by Country (2021-2026) & (USD Million)

Table 75. North America Nitride Vanadium for Steel Consumption Value by Country (2027-2032) & (USD Million)

Table 76. Europe Nitride Vanadium for Steel Sales Quantity by Type (2021-2026) & (Kilotons)

Table 77. Europe Nitride Vanadium for Steel Sales Quantity by Type (2027-2032) & (Kilotons)

Table 78. Europe Nitride Vanadium for Steel Sales Quantity by Application (2021-2026) & (Kilotons)

Table 79. Europe Nitride Vanadium for Steel Sales Quantity by Application (2027-2032) & (Kilotons)

Table 80. Europe Nitride Vanadium for Steel Sales Quantity by Country (2021-2026) & (Kilotons)

Table 81. Europe Nitride Vanadium for Steel Sales Quantity by Country (2027-2032) & (Kilotons)

Table 82. Europe Nitride Vanadium for Steel Consumption Value by Country (2021-2026) & (USD Million)

Table 83. Europe Nitride Vanadium for Steel Consumption Value by Country (2027-2032) & (USD Million)

Table 84. Asia-Pacific Nitride Vanadium for Steel Sales Quantity by Type (2021-2026) & (Kilotons)

Table 85. Asia-Pacific Nitride Vanadium for Steel Sales Quantity by Type (2027-2032) & (Kilotons)

Table 86. Asia-Pacific Nitride Vanadium for Steel Sales Quantity by Application (2021-2026) & (Kilotons)

Table 87. Asia-Pacific Nitride Vanadium for Steel Sales Quantity by Application (2027-2032) & (Kilotons)

Table 88. Asia-Pacific Nitride Vanadium for Steel Sales Quantity by Region (2021-2026) & (Kilotons)

Table 89. Asia-Pacific Nitride Vanadium for Steel Sales Quantity by Region (2027-2032) & (Kilotons)

Table 90. Asia-Pacific Nitride Vanadium for Steel Consumption Value by Region (2021-2026) & (USD Million)

Table 91. Asia-Pacific Nitride Vanadium for Steel Consumption Value by Region (2027-2032) & (USD Million)

Table 92. South America Nitride Vanadium for Steel Sales Quantity by Type (2021-2026) & (Kilotons)

Table 93. South America Nitride Vanadium for Steel Sales Quantity by Type (2027-2032) & (Kilotons)

Table 94. South America Nitride Vanadium for Steel Sales Quantity by Application (2021-2026) & (Kilotons)

Table 95. South America Nitride Vanadium for Steel Sales Quantity by Application (2027-2032) & (Kilotons)

Table 96. South America Nitride Vanadium for Steel Sales Quantity by Country (2021-2026) & (Kilotons)

Table 97. South America Nitride Vanadium for Steel Sales Quantity by Country (2027-2032) & (Kilotons)

Table 98. South America Nitride Vanadium for Steel Consumption Value by Country (2021-2026) & (USD Million)

Table 99. South America Nitride Vanadium for Steel Consumption Value by Country (2027-2032) & (USD Million)

Table 100. Middle East & Africa Nitride Vanadium for Steel Sales Quantity by Type (2021-2026) & (Kilotons)

Table 101. Middle East & Africa Nitride Vanadium for Steel Sales Quantity by Type (2027-2032) & (Kilotons)

Table 102. Middle East & Africa Nitride Vanadium for Steel Sales Quantity by Application (2021-2026) & (Kilotons)

Table 103. Middle East & Africa Nitride Vanadium for Steel Sales Quantity by Application (2027-2032) & (Kilotons)

Table 104. Middle East & Africa Nitride Vanadium for Steel Sales Quantity by Country (2021-2026) & (Kilotons)

Table 105. Middle East & Africa Nitride Vanadium for Steel Sales Quantity by Country (2027-2032) & (Kilotons)

Table 106. Middle East & Africa Nitride Vanadium for Steel Consumption Value by Country (2021-2026) & (USD Million)

Table 107. Middle East & Africa Nitride Vanadium for Steel Consumption Value by Country (2027-2032) & (USD Million)

Table 108. Nitride Vanadium for Steel Raw Material

Table 109. Key Manufacturers of Nitride Vanadium for Steel Raw Materials

Table 110. Nitride Vanadium for Steel Typical Distributors

Table 111. Nitride Vanadium for Steel Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Nitride Vanadium for Steel Picture

Figure 2. Global Nitride Vanadium for Steel Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global Nitride Vanadium for Steel Revenue Market Share by Type in 2025

Figure 4. Nitrogen Content 12% Examples

Figure 5. Nitrogen Content 16% Examples

Figure 6. Global Nitride Vanadium for Steel Revenue by Carbon Content, (USD Million), 2021 & 2025 & 2032

Figure 7. Global Nitride Vanadium for Steel Revenue Market Share by Carbon Content in 2025

Figure 8. Carbon Content

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